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TITLE: FLUORESCENCE POLARIZING APPARATUS

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ABSTRACT:

PURPOSE: To achieve a fully automatic diagnosis of cancer to the acquisition of final data after the insertion of sample by automatizing the control of mechanisms and computations centered on a microprocessor.

CONSTITUTION: A white light from a light source 9 irradiates a sample cell 13 by way of an excitation side spectrometer 10 and a polarizer 11 and a sample emits fluorescence. Reaching a photo cell 20, by way of a polarizer 17 and a spectrometer 19, the fluorescence is converted into an electrical signal and inputted into an A-D converter 22. The polarizer 17 is turned by 90° with

a pulse motor 18 at a fixed time interval and the fluorescence is divided into components vertical and parallel to a polarization excited light to be read into a memory 27. After a fixed time of measurement, lymphocyte is filtered with a pump 16, solenoid valve 15 and a filter 14 and then, measured again. With the end of the measurement, a specified computation is done with an arithmetic section 23 based on the data and the results are printed out on a printer 29. Thus, the final results can be obtained in a fully automatic manner.

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